Herd Immunity Thresholds for Selected Vaccine-Preventable Diseases

http://www.bt.cdc.gov/agent/smallpox/training/overview/pdf/eradicationhistory.pdf

			Immunization Levels	
Disease	$R_{_0}$	Herd Immunity	1999 19-35 Months	1997-1998 Pre-School
Diphtheria	6-7	85%*	83%*	9%
Measles	12-18	83-94%	92%	96%
Mumps	4-7	75-86%	92%	97%
Pertussis	12-17	92-94%	83%*	97%
Polio	5-7	80-86%	90%	97%
Rubella	6-7	83-85%	92%	97%
Smallpox	5-7	80-85%	_	_

^{*4} doses

† Modified from Epid Rev 1993;15: 265-302, Am J Prev Med 2001; 20 (4S): 88-153, MMWR 2000; 49 (SS-9); 27-38

